

We claim:

Sub A3
1 A four function electrical rocker switch comprising:

- 5
- a) a first rocker section having a first single pole, single throw switch having a first movable contact arm and a first contact ;
- b) a second rocker section having a second single pole, single throw switch having a second movable contact arm and a second contact;
- 10 c) said first and second movable contact arms coupled to a phase line of a source of AC power, said first contact coupled to a first electrical load via a first screw terminal and said second contact coupled to a second electrical load via a second screw terminal;
- 15 d) a third rocker section having a center-off single pole, double throw switch having a third movable contact arm formed generally into a shallow v-shape with an enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, a third moveable contact arm support saddle for supporting the third moveable contact arm, a third contact of a screw terminal and a fourth contact of a screw terminal; said third moveable contact arm coupled to said phase line through said third moveable contact arm support saddle, wherein the third
- 20 movable contact arm both pivots and slides in and relative to the third moveable contact arm support saddle, said third contact coupled to a third electrical load and mounted in a fixed relationship to said third moveable contact ^{arm} support saddle and said fourth contact coupled to a fourth contact coupled to a fourth electrical load and mounted in a fixed relationship to said third moveable contact arm support

Sub
A.3
cont

25

saddle, whereby said third moveable contact arm can be connected to one of said third and fourth loads through a respective one of said third and fourth contacts or in the center-off position.

2. A four function electrical rocker switch comprising:

- a) a first rocker section having a first single pole, single throw switch having a first movable arm with a first movable contact thereon and a first contact of a screw terminal coupled to a first side of a first electrical load;
- b) a second rocker section having a second single pole, single throw switch having a second movable arm with a second movable contact thereon and a second contact of a screw terminal coupled to a first side of a second electrical load;
- c) said first and second movable arms coupled to a phase line of a source of AC power;
- d) a third rocker section having a center-off, single pole, double throw switch having a third movable arm with third and fourth movable contacts thereon, the third moveable arm being formed generally into a shallow v-shape with an enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, a third moveable arm support saddle for supporting the third moveable arm, a third contact of a screw terminal coupled to a first side of a third electrical load and mounted in a fixed relationship to said ^{third} moveable arm support saddle, and a fourth contact of a screw terminal coupled to a first side of a fourth electrical load and mounted in a fixed relationship to said third moveable arm support saddle, said third moveable arm coupled to said phase line through said third moveable

10

15

20

Sub
A.3
Cont

arm support saddle, wherein the third moveable arm both pivots and slides in and relative to the third moveable arm support saddle, the extent of said sliding movement being limited by contact of the enlarged planar section of the third moveable contact arm with the third moveable arm support saddle;

- e) a second side of each of said first, second, third and fourth electrical loads coupled to a neutral conductor of said source of AC power via a screw terminal, whereby AC power can be supplied to said first electrical load, said second electrical load and one of said third and fourth electrical loads or neither of said third and fourth electrical loads.

3. A four function electrical rocker switch as defined in Claim 2, wherein electrical power can be supplied to said first electrical load by engaging said first contact and said first movable contact on said first movable arm.
4. A four function electrical rocker switch as defined in Claim 2, wherein electrical power can be supplied to said second electrical load by engaging said second contact and said second movable contact on said second movable arm.
5. A four function electrical rocker switch as defined in Claim ²[3], wherein electrical power can be supplied to both of said first and second electrical loads by engaging said first contact and said first movable contact on said first movable arm and said second contact and said second movable contact on said second movable arm.
6. A four function electrical rocker switch as defined in Claim 2, wherein electrical power can be supplied to said third electrical load by engaging said third contact and said third movable contact on said third movable arm.

Sub
a3
and

7. A four function electrical rocker switch as defined in Claim 2, wherein electrical power can be supplied to said fourth electrical load by engaging said fourth contact and said fourth movable contact on said third movable arm.
8. A four function electrical rocker switch as defined in Claim 2, wherein electrical power can be supplied to one of said third and fourth electrical loads by engaging one of said third and fourth movable contacts on said third movable arm with one of said third and fourth contacts.
9. A four function electrical rocker switch as defined in Claim 2, wherein electrical power is not supplied to one of said third and fourth electrical loads by placing said third movable arm in said center-off position.
10. A multi-function electrical switch device comprising:
- at least one first rocker section, each of said at least one first rocker section having a first single pole, single throw switch having a first movable contact arm and a first movable contact;
 - each of said at least one first movable contact arm coupled to a phase line of a source of AC power and each of said at least one first movable contact adapted to engage an associated fixed contact of a screw terminal coupled to a separate electrical load;
 - at least one second rocker section, each of said at least one second rocker section having a center-off single pole, double throw switch having a second movable contact arm formed generally into a shallow v-shape with an enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, at least

Sub
A3
Cont
15

one second moveable contact arm support saddle for supporting the at least one second moveable contact arm; and

- 20
- d) each of said at least one second movable contact arm coupled to said phase line through said at least one second moveable contact arm support saddle, wherein the second moveable contact arm both pivots and slides in and relative to the at least one second moveable contact arm support saddle, the extent of said sliding movement being limited by contact of the enlarged planar section of the second moveable contact arm with the second moveable contact arm support saddle, and each of said at least one second moveable contact adapted to engage ^{an} associated at least one fixed contact of a screw terminal, each coupled to a separate electrical load and mounted in a fixed relationship to an associated at least one second moveable contact arm support saddle or said at least one second movable contact arm can be placed in the center-off position with said second moveable contact not engaging one of said fixed contacts.
- 25

11. A multi-function electrical switching device comprising:

- a) a first rocker section having a first single pole, single throw switch having a first movable contact arm and a first movable contact adapted to engage a first fixed contact of a screw terminal coupled to a first electrical load;
- b) a second rocker section having a second single pole, single throw switch having a second movable contact arm and a second movable contact adapted to engage a second fixed contact of a screw terminal coupled to a second electrical load; and
- c) a third rocker section having a center-off, single pole, double throw switch having a third movable contact arm formed generally into a shallow v-shape with an
- 9

Sub
A3
cont

enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, a third moveable contact arm support saddle for supporting the third moveable contact arm, and a third moveable contact arm support saddle for supporting the third moveable contact arm, and a third moveable contact adapted to engage one of a third and fourth fixed contact of screw terminals, said third fixed contact coupled to a third electrical load and said fourth fixed contact coupled to a fourth electrical load or said third moveable contact arm can position said third moveable contact out of engagement with said third and fourth fixed contacts;

wherein the third moveable contact arm both pivots and slides in and relative to the third moveable contact arm support saddle, the extent of said sliding movement being limited by contact of the enlarged planar section of the third moveable contact arm with the third moveable contact arm support saddle; and

wherein each of the third and fourth fixed contacts is mounted in a fixed relationship to the third moveable contact arm support saddle.

12. A multi-function electrical switching device comprising:

a) a first rocker section having a first single pole, single throw switch having a first movable contact arm and a first movable contact adapted to engage a first fixed contact of a screw terminal coupled to a first electrical load;

b) a second rocker section having a center-off, single pole, double throw switch having a second movable contact arm formed generally into a shallow v-shape

Sub
A3
cont

10

with an enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, a second moveable contact arm support saddle for supporting the second moveable contact arm, and a second moveable contact adapted to engage one of a second and third fixed contact of screw terminals, said second fixed contact coupled to a second electrical load and said third fixed contact coupled to a third electrical load or said second moveable contact arm can position said second moveable contact out of engagement with said second and third fixed contacts;

- c) a third rocker section having a center-off, single pole, double throw switch having a third movable contact arm formed generally into a shallow v-shape with an enlarged planar section connected to the legs of the v-shape at the vertex of the v-shape with the enlarged planar section having a width greater than the width of either leg, a third moveable contact arm support saddle for supporting the third moveable contact arm, and a third moveable contact adapted to engage one of a fourth and fifth fixed contact, said fourth fixed contact coupled to a fourth electrical load and said fifth fixed contact coupled to a fifth electrical load or said third moveable contact arm can position said third moveable contact out of engagement with said fourth and fifth fixed contacts;

20

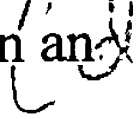
wherein the second moveable contact arm both pivots and slides in and relative to the second moveable contact arm support saddle, the extent of said sliding movement being limited by contact of the enlarged planar section of the second moveable contact arm with the second moveable contact arm support

29

30 Sub
A3
Cont

saddle;

wherein each of said second and third fixed contacts is mounted in a fixed relationship to the second moveable contact arm support saddle;

wherein the third moveable contact arm both pivots and slides in an  relative to the third moveable contact arm support saddle, the extent of said sliding movement being limited by contact of the enlarged planar section of the third moveable contact arm with the third moveable contact arm support saddle; and

wherein each of said fourth and fifth fixed contacts is mounted in a fixed relationship to the third moveable contact arm support saddle.

20100901